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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/683,238	12/05/2001	James G. Shanahan	D/A1320	8310

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EXAMINER

RIES, LAURIE ANNE

ART UNIT	PAPER NUMBER
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2176

DATE MAILED: 05/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/683,238

Applicant(s)

SHANAHAN ET AL.

Examiner

Laurie Ries

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 March 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18,21 and 22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18,21 and 22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to communications: amendment, filed 3 March 2005, to the original application filed 5 December 2001.
2. The rejection of claims 1-22 under 35 U.S.C. 103(a) has been removed as necessitated by amendment and newly found prior art.
3. Claims 1-18 and 21-22 are pending. Claims 19-20 have been cancelled. Claims 21-22 are newly added claims. Claims 1, 11, and 21 are independent claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 7, 11, and 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horowitz (U.S. Patent 6,122,647), hereafter referred to as "Horowitz '647", in view of Horowitz (U.S. Patent 6,236,987 B1), hereafter referred to as "Horowitz '987".

As per claims 1, 11 and 21, Horowitz '647 discloses a system, article of manufacture and method for enriching (or annotating with a predefined theme) the content of a document using personalities that identify enrichment themes with at least one tag located close to a physical identifier that is associated with a personality (or theme) in a database of personalities (or

themes), and a method including recording context information, identifying document content using the recorded context information, enriching the identified document content with the personality, and making the enriched document content available (See Horowitz '647, Column 5, lines 60-64, Figure 7, Column 8, lines 38-67, Column 9, lines 1-63, Figure 8, Column 10, lines 8-27 and Column 11, lines 39-40). Horowitz '647 does not disclose expressly including a personality ID that is associated with the recorded context information. Horowitz '647 also does not disclose expressly an associated personality that defines a set of document service requests identifying enrichment themes, and recognizing and annotating entities in the identified document content related to the associated personality. Horowitz '987 discloses using a topic ID, recorded in a database on a computer and therefore digitally readable, which is associated with a topic, or personality, in a database of topics, or personalities (See Horowitz '987, Column 8, lines 36-67, and Column 9, lines 1-5). Horowitz '987 also discloses a supertopic arrangement containing associated subtopics, which can be used to enrich a document based on the specific supertopic (See Horowitz '987, Column 11, lines 52-67, and Column 12, lines 1-26), and annotating entities in the identified document content related to the associated supertopic (See Horowitz '987, Column 8, lines 52-67 and Column 9, lines 1-29). Horowitz '647 and Horowitz '987 are analogous art because they are from the same field of endeavor of linking hypertext data. At the time of the invention it would have been obvious to a person of ordinary skill in the art to include the topic ID and supertopic arrangement of Horowitz '987 with the method of Horowitz '647. The motivation for doing so would have been to determine topic intersections of interest to the user (See Horowitz '987, Column 11, lines 52-56) Therefore, it would have been

obvious to combine Horowitz '987 with Horowitz '647 for the benefit of determining topic intersections of interest to the user to obtain the invention as specified in claims 1, 11 and 21.

As per claim 2, Horowitz '647 and Horowitz '987 disclose the limitations of claim 1 as described above. Horowitz '647 also discloses transmitting the recorded personality ID and the context information to a meta-document server, where the meta-document server identifies the document content, associates the identified document content with the personality ID, and enriches the document content (See Horowitz '647, Figure 8, Figure 9, and Column 11, lines 24-32).

As per claim 3, Horowitz '647 and Horowitz '987 disclose the limitations of claim 2 as described above. Horowitz '647 also discloses that the meta-document server, upon identification of the document content, associates the personality ID with the identified document content (See Horowitz '647, Figure 8, element 808), that the meta-document server recognizes, with at least a first method, an entity in the document content (See Horowitz '647, Column 8, lines 50-61), that the meta-document server accesses, with at least a second method, a document service using the recognized entity (See Horowitz '647, Column 9, lines 28-63), that the meta-document server annotates the identified document content with output from the document service to define enriched document content (See Horowitz '647, Figure 8, element 810, and Column 10, lines 22-27), and that the meta-document server makes the enriched document content available to a set of one or more users (See Horowitz '647, Column 11, lines 39-40).

As per claim 7, Horowitz '647 and Horowitz '987 disclose the limitations of claim 2 as described above. Horowitz '987 also discloses that the recognized entities in the identified

document content are annotated differently depending on what time of year the personality ID is recorded (See Horowitz '987, Column 8, lines 65-67, Column 9, lines 1-5, and Column 13, lines 1-3). Horowitz '647 and Horowitz '987 are analogous art because they are from the same field of endeavor of linking hypertext data. At the time of the invention it would have been obvious to a person of ordinary skill in the art to include the annotation type dependent upon the time of year of Horowitz '987 with the method of Horowitz '647 and Horowitz '987. The motivation for doing so would have been to control the number and variety of subsets of topic that is determined to be useful (See Horowitz '987, Column 12, lines 61-67, and Column 13, lines 1-8). Therefore, it would have been obvious to combine Horowitz '987 with Horowitz '647 for the benefit of controlling the number and variety of subsets of topic that is determined to be useful to obtain the invention as specified in claim 7.

As per claim 14, Horowitz '647 and Horowitz '987 disclose the limitations of claim 11 as described above. Horowitz '987 also discloses

As per claim 22, Horowitz '647 and Horowitz '987 disclose the limitations of claim 21 as described above. Horowitz '647 also discloses transmitting the recorded topic ID and context information to a meta-document server, where the meta-document server identifies the document content, associates the identified document content with the personality ID, and enriches the document content (See Horowitz '647, Figures 8 and 9), where the meta-document server, upon identification of the document content, associates the topic ID, personality ID, with identified document content (See Horowitz '647, Figure 8, element 808), recognizes, with at least a first method, an entity in the document content (See Horowitz '647, Column 8, lines 50-61), accesses, with at least a second method, a document service using the recognized entity (See Horowitz

'647, Column 9, lines 28-63), annotates the identified document content with output from the document service to define enriched document content (See Horowitz, Figure 8, element 810, and Column 10, lines 22-270, and makes the enriched document content available to a set of one or more users (See Horowitz, Column 11, lines 39-40).

Claims 4-6 and 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horowitz (U.S. Patent 6,122,647), hereafter referred to as "Horowitz '647", in view of Horowitz (U.S. Patent 6,236,987 B1), hereafter referred to as "Horowitz '987", as applied to claims 1 and 11 above, and further in view of Wang (U.S. Publication 2002/0023215 A1).

As per claims 4-6 and 12-14, Horowitz '647 and Horowitz '987 disclose the limitations of claim 1 as described above. Horowitz '987 also discloses transmitting document tokens with the personality ID to the meta-document server (See Horowitz '987, Column 9, lines 31-40). Horowitz '647 and Horowitz '987 do not disclose expressly recording the digitally readable ID from an electronic tag with an electronic tag reader, or from embedded data recorded on a hardcopy document with a scanner. Wang discloses recording an ID from a printed electronic barcode using a barcode scanning device (See Wang, Page 12, paragraph 0115). Horowitz '647, Horowitz '987 and Wang are analogous art because they are from the same field of endeavor of recording electronic data. At the time of the invention it would have been obvious to include the recording of an ID from a barcode scanning device of Wang with the system and method of Horowitz '647 and Horowitz '987. The motivation for doing so would have been to allow the user to conveniently and comfortably perform a transaction from any location (See Wang, Page 2, paragraph 0012). Therefore, it would have been obvious to combine Wang with Horowitz '647

and Horowitz '987 for the benefit of allowing the user to conveniently and comfortably perform a transaction from any location to obtain the invention as specified in claims 4-6 and 12-14.

As per claim 15, Horowitz '647, Horowitz '987, and Wang disclose the limitations of claim 14 as described above. Horowitz '987 also discloses that the recognized entities in the identified document content are annotated differently depending on what time of year the personality ID is recorded (See Horowitz '987, Column 8, lines 65-67, Column 9, lines 1-5, and Column 13, lines 1-3). Horowitz '647, Horowitz '987 and Wang are analogous art because they are from the same field of endeavor of recording electronic data. At the time of the invention it would have been obvious to a person of ordinary skill in the art to include the annotation type dependent upon the time of year of Horowitz '987 with the method of Horowitz '647, Horowitz '987 and Wang. The motivation for doing so would have been to control the number and variety of subsets of topic that is determined to be useful (See Horowitz '987, Column 12, lines 61-67, and Column 13, lines 1-8) Therefore, it would have been obvious to combine Horowitz '987 with Horowitz '647, Horowitz '987 and Wang for the benefit of controlling the number and variety of subsets of topic that is determined to be useful to obtain the invention as specified in claim 15.

Claims 8-9 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horowitz (U.S. Patent 6,122,647), hereafter referred to as "Horowitz '647", in view of Horowitz (U.S. Patent 6,236,987 B1), hereafter referred to as "Horowitz '987", as applied to claims 1, 14 and 17 above, and further in view of Goodisman (U.S. Publication 2002/0069223 A1).

As per claims 8-9 and 16-17, Horowitz '647 and Horowitz '987 disclose the limitations of claims 1 and 11 as described above. Horowitz '647 and Horowitz '987 do not disclose expressly that the recorded context is one of position information and time information and where the recorded context information is one of a timestamp that records when the recording took place and a position ID that identifies a position of the physical object. Goodisman discloses including time and location information in context data (See Goodisman, Page 2, paragraph 0025). Horowitz '647, Horowitz '987 and Goodisman are analogous art because they are from the same field of endeavor of linking hypertext data. At the time of the invention it would have been obvious to a person of ordinary skill in the art to include the time and position information of Goodisman with the context data of Horowitz '647 and Horowitz '987. The motivation for doing so would have been to present different information to different users through context filtering (See Goodisman, Page 2, paragraph 0025). Therefore, it would have been obvious to combine Goodisman with Horowitz '647 and Horowitz '987 for the benefit of presenting different information to different users through context filtering to obtain the invention as specified in claims 8-9 and 16-17.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Horowitz (U.S. Patent 6,122,647), hereafter referred to as "Horowitz '647", in view of Horowitz (U.S. Patent 6,236,987 B1), hereafter referred to as "Horowitz '987", as applied to claim 1 above, and further in view of Keith (U.S. Publication 2002/0032672 A1).

As per claim 10, Horowitz '647 and Horowitz '987 disclose the limitations of claim 1 as described above. Horowitz '647 and Horowitz '987 do not disclose expressly providing

notification that the enriched document is available. Keith Jr discloses notifying a user regarding updated data (See Keith Jr, Pages 10-11, paragraph 0092). Keith Jr, Horowitz '647 and Horowitz '987 are analogous art because they are from the same field of endeavor of processing electronic data. At the time of the invention it would have been obvious to a person of ordinary skill in the art to include the user notification of updated data of Keith Jr with the enriched document of Horowitz '647 and Horowitz '987. The motivation for doing so would have been to push information to users when desired new information is entered into the system (See Keith Jr, Page 11, paragraph 0092). Therefore, it would have been obvious to combine Keith Jr with Horowitz '647 and Horowitz '987 for the benefit of pushing information to users when desired new information is entered into the system to obtain the invention as specified in claim 10.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Horowitz (U.S. Patent 6,122,647), hereafter referred to as "Horowitz '647", in view of Horowitz (U.S. Patent 6,236,987 B1), hereafter referred to as "Horowitz '987", and Wang (U.S. Publication 2002/0023215 A), as applied to claim 14 above, and further in view of Goodisman (U.S. Publication 2002/0069223 A1).

As per claim 18, Horowitz '647, Horowitz '987 and Wang disclose the limitations of claim 14 as described above. Horowitz '647, Horowitz '987 and Wang do not disclose expressly identifying position coordinates where the personality ID, or topic ID, is recorded. Goodisman discloses including time and location information in context data (See Goodisman, Page 2, paragraph 0025). Horowitz '647, Horowitz '987, Wang and Goodisman are analogous art because they are from the same field of endeavor of recording electronic data. At the time of the

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invention it would have been obvious to a person of ordinary skill in the art to include the time and position information of Goodisman with the context data of Horowitz '647, Horowitz '987 and Wang. The motivation for doing so would have been to present different information to different users through context filtering (See Goodisman, Page 2, paragraph 0025). Therefore, it would have been obvious to combine Goodisman with Horowitz '647, Horowitz '987 and Wang for the benefit of presenting different information to different users through context filtering to obtain the invention as specified in claim 18.

Response to Arguments

Applicant's arguments with respect to claims 1-18 and 21-22 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Fraier (U.S. Publication 2003/0001016 A1) discloses techniques for finding related hyperlinked documents using link-based analysis.
- Dourish discloses using properties for uniform interaction in the Presto document system.
- Dourish discloses extending document management systems with user-specific active properties.

- Weigang discloses structured hypertext with domain semantics.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laurie Ries whose telephone number is (571) 272-4095. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Field, can be reached on (571) 272-4090.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

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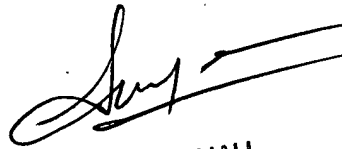
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LR
4/30/05



SANJIV SHAH
PRIMARY EXAMINER